



PTO/SB/08 Equivalent

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

<i>(Multiple sheets used when necessary)</i>	Application No.	10/706,346
	Filing Date	November 12, 2003
	First Named Inventor	Steven F. Bolling et al.
	Art Unit	3763
SHEET 1 OF 1	Examiner	Unknown
	Attorney Docket No.	ORQIS.007A

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
CO/L ↓	1	4,960,411	10/1990	Buchbinder	
	2	5,616,137	4/1997	Lindsay	
	3	6,293,958	9/2001	Berry et al.	
	4	2003/0040736 A1	2/2003	Stevens et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
CO/L	5	WO 98/28034	7/1998	Medicard, Ltd.		
CO/L	6	WO 03/068303	8/2003	Orqis Medical Corp.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
CO/L	7	International Search Report for Appl. No. PCT/US2004/037636, mailed 4/2005	

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060605

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. ORQIS.007A	APPLICATION NO. 10/706,348
	APPLICANTS Steven F. Bolling, et al.	
	FILING DATE November 12, 2003	GROUP 3763

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
COF	1	6,685,621	02/03/04	Bolling, et al.			
	2	6,610,004	8/26/03	Viole et al.			
	3	6,558,356	7/1998	Barbut			
	4	6,514,226	02/04/03	Levin et al.			
	5	6,488,662	12/03/02	Sririmanne			
	6	6,428,464	08/06/02	Bolling			
	7	6,390,969	5/21/02	Bolling et al.			
	8	6,387,037	05/15/02	Bolling, et al.			
	9	6,371,935	04/16/02	Macoviak et al.			
	10	6,299,575	10/09/01	Bolling			
	11	6,287,608	09/11/01	Levin et al.			
	12	6,200,260	03/13/01	Bolling			
	13	6,245,045 B1	6/2001	Stratienko			
	14	6,228,052 B1	5/2001	Okada et al.			
	15	6,224,540	5/01/01	Lederman et al.			
	16	6,221,103	4/24/01	Melvin			
	17	6,190,408	2/20/01	Melvin			
	18	6,183,411	2/06/01	Mortier et al.			
	19	6,085,754	7/11/00	Alfemess et al.			
	20	6,059,760	05/09/00	Sandmore et al.			
	21	6,044,845	04/04/00	Lewis			
	22	5,964,694	10/12/99	Siess et al.			
	23	5,941,813	8/24/99	Sievers et al.			
	24	5,911,685	6/15/99	Siess et al.			
	25	5,851,174	12/22/98	Jarvik et al.			
	26	5,824,070	10/20/98	Jarvik			
	27	5,807,311	09/15/98	Palestrant			

EXAMINER	<i>Ch D Kharasch</i>	DATE CONSIDERED	<i>4/13/06</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

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	APPLICANTS Steven F. Bolling, et al.	
	FILING DATE November 12, 2003	GROUP 3783

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
cdk	28	5,785,686	7/1998	Runge, Thomas M.			
	29	5,749,855	05/12/98	Reitan			
	30	5,746,575	05/05/98	Westphal et al.			
	31	5,584,804	12/17/96	Klatz et al.			
	32	5,776,111	07/07/98	Teslo			
	33	5,562,595	10/08/96	Neisz			
	34	5,571,093	11/05/96	Cruz et al.			
	35	5,554,136	09/10/96	Luther			
	36	5,533,958	6/9/96	Wilk			
	37	5,522,800	06/04/96	Crocker			
	38	5,514,073	5/7/96	Miyata et al.			
	39	5,511,958	04/30/96	Chen et al.			
	40	5,505,710	4/1996	Dorsey, III			
	41	5,503,615	04/30/96	Goldstein			
	42	5,486,159	01/23/96	Mahurkar			
	43	5,472,417	12/05/95	Martin et al.			
	44	5,453,084	09/26/95	Moses			
	45	5,453,076	09/26/95	Kiyota et al.			
	46	5,437,601	8/1/95	Runge			
	47	5,433,731	7/18/95	Hoegnelid et al.			
	48	5,429,584	07/04/95	Chlu			
	49	5,413,549	5/9/95	Leschinsky			
	50	5,403,291	04/04/95	Abrahamson			
	51	5,278,230	01/03/95	Mahurkar			
	52	5,376,113	12/27/97	Jansen et al.			
	53	5,374,239	12/20/94	Mischenko			
	54	5,352,180	10/04/94	Candelon et al.			
↓	55	5,346,458	09/13/94	Affeld			

EXAMINER <i>CDK Kishore</i>	DATE CONSIDERED <i>4/13/06</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 809; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ORQIS.007A	APPLICATION NO. 10/706,346
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANTS Steven F. Bolling, et al.	
		FILING DATE November 12, 2003	GROUP 3763

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CAK	56	5,332,403	07/26/94	Kolff			
	57	5,318,518	06/07/94	Plechinger et al.			
	58	5,300,113	04/05/94	Arpessella et al.			
	59	5,290,227	3/1/94	Pasque			
	60	5,273,518	12/28/93	Lee et al.			
	61	5,267,940	12/07/93	Moulder			
	62	5,263,978	11/23/93	Kaufman et al.			
	63	5,211,659	05/18/93	Strimling et al.			
	64	5,176,619	01/05/93	Segalowitz			
	65	5,171,207	12/15/92	Whalen			
	66	5,169,379	12/08/92	Freed et al.			
	67	5,169,378	12/08/92	Figuera			
	68	5,147,388	09/15/92	Yamazaki			
	69	5,147,281	09/15/92	Thomton et al.			
	70	5,133,744	07/28/92	Ramos Martinez			
	71	5,131,905	07/21/92	Grooters			
	72	5,129,878	07/14/92	Takano et al.			
	73	5,116,564	05/26/92	Jansen et al.			
	74	5,098,370	03/24/92	Rahat et al.			
	75	5,092,844	03/03/92	Schwartz et al.			
	76	5,087,247	02/11/92	Horn et al.			
	77	5,089,017	02/18/92	Young et al.			
	78	5,069,662	12/03/91	Bodden			
	79	5,059,167	10/19/91	Lundquist et al.			
	80	5,041,098	08/20/91	Loiterman et al.			
	81	5,020,516	06/04/91	Biondi et al.			
↓	82	4,995,857	02/26/91	Arnold			

EXAMINER <i>Ch D Kobarski</i>	DATE CONSIDERED <i>4/13/06</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 608; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ORQIS.007A	APPLICATION NO. 10/708,346
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANTS Steven F. Bolling, et al.	
		FILING DATE November 12, 2003	GROUP 3763

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>COV</i>	83	4,995,856	02/26/91	Heindl et al.			
	84	4,944,745	07/31/90	Sogard et al.			
	85	4,994,078	02/19/91	Jarvik			
	86	4,968,293	11/06/90	Nelson			
	87	4,957,504	09/18/90	Chardack			
	88	4,927,407	05/22/90	Dorman			
	89	4,925,452	05/15/90	Melinyshyn et al.			
	90	4,908,012	03/13/90	Moise et al.			
	91	4,906,229	03/06/90	Wampler			
	92	4,902,273	02/20/90	Choy et al.			
	93	4,902,272	02/20/90	Milder et al.			
	94	4,895,150	01/23/90	Isaacson et al.			
	95	4,883,462	11/28/89	Williamson et al.			
	96	4,872,874	10/10/89	Taheri			
	97	4,861,330	08/29/89	Voss			
	98	4,838,889	06/13/89	Kolff			
	99	4,822,357	04/18/89	Forster et al.			
	100	4,771,765	09/20/88	Choy et al.			
	101	4,759,760	07/26/88	Snapp Jr.			
	102	4,756,302	07/12/88	Portner et al.			
	103	4,719,921	01/19/88	Chirife			
	104	4,697,574	10/6/87	Karcher et al.			
	105	4,690,134	09/01/87	Snyders			
	106	4,688,998	08/25/87	Olsen et al.			
	107	4,685,446	08/11/87	Choy			
	108	4,666,443	05/19/87	Portner			
<i>↓</i>	109	4,625,712	12/02/86	Wampler			

EXAMINER <i>Ch D K...</i>	DATE CONSIDERED <i>4/13/06</i>
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CAK	110	4,611,578	05/27/86	Helmes			
	111	4,573,997	03/04/86	Wisman et al.			
	112	4,569,332	2/11/86	Schiff et al.			
	113	4,552,522	11/12/85	Polaschegg et al.			
	114	4,546,759	10/15/85	Solar			
	115	4,543,087	09/24/85	Sommercom, et al.			
	116	4,522,195	06/11/85	Schiff			
	117	4,459,977	07/17/84	Pizon et al.			
	118	4,457,673	07/03/84	Conley et al.			
	119	4,407,271	10/04/83	Schiff			
	120	4,405,313	09/20/83	Sisley, et al.			
	121	4,384,829	05/24/83	Conely et al.			
	122	4,302,854	12/01/81	Runge			
	123	4,240,409	12/23/80	Robinson et al.			
	124	4,167,046	09/11/79	Portner et al.			
	125	4,154,227	05/15/79	Krause et al.			
	126	4,143,616	03/13/79	Bible			
	127	4,134,402	01/16/79	Mahurkar			
	128	4,135,496	01/23/79	Chazov et al.			
	129	4,080,958	3/19/78	Bregman et al.			
	130	4,077,394	03/07/78	McCurdy			
	131	4,051,840	10/4/77	Kantrowitz et al.			
	132	4,047,849	09/13/77	Clay			
	133	4,034,742	07/12/77	Thoma			
	134	4,004,299	01/25/77	Runge			
	135	3,964,479	06/22/76	Boag et al.			
↓	136	3,939,820	02/24/76	Grayzel			

EXAMINER <i>CDK D/Kuhawski</i>	DATE CONSIDERED <i>4/13/06</i>
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>CAH</i>	137	3,885,251	05/27/75	Pedrosa			
	138	3,835,864	9/17/79	Rasor et al.			
	139	3,692,018	09/19/72	Goetz et al.			
	140	3,592,184	07/13/71	Watkins et al.			
	141	3,017,885	1/19/62	Robicsek			
	142	2,935,068	05/30/60	Donaldson			
	143	2,876,769	03/10/59	Cordova			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>CAH</i>	144	2 174 151A	01/10/85	UK				
	145	SU 1,303,165 A2	1/19/85	Russia				
	146	0,232,074	01/22/87	Europe				
	147	0 405 749 A1	05/25/90	EPO				
	148	0 533 432 A1	03/24/93	EPO				
	149	WO 94/05347	03/17/94	WO				
	150	WO 97/15228	05/01/97	WO				
	151	WO 98/14225	03/10/97	PCT				
	152	WO 98/34676	08/13/98	PCT				
	153	WO 99/19010	04/22/99	PCT				
	154	WO 99/42156	08/26/99	PCT				
	155	WO 00/61207	10/19/00	PCT				
	156	WO 00/76577	12/21/00	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
<i>CAH</i>	157	JAMA, January 8, 1968. Vol. 203. No 2, Initial Clinical Experience with Intra-aortic Balloon Pumping in Cardiogenic Shock. PP 113-118	
<i>CAH</i>	158	Article: A Mechanical Auxiliar Ventricle. PP M340-344.	

EXAMINER <i>Chen D. K...</i>	DATE CONSIDERED <i>4/13/06</i>
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
ad/h	159	Article: Effect of Stationary Guiding Vanes on Improvement of the Washout Behind the Rotor in Centrifugal Blood Pumps: PP M220-224
	160	Article: Concepts in the Application of Pneumatic Ventricular Assist Devices for Ischemic Myocardial Injury. PP 162-168
	161	Article: Long-Term Left Ventricular Assist Device Use Before Transplantation: PP M530-M534
	162	Article: In Vitro Characterization of a Magnetically Suspended Continuous Flow Ventricular Assist Device: PP M359-M360
	163	Article: Estimation of Left Ventricular Function in Patients With a Left Ventricular Assist device: M544-551
	164	Article: Long Term Follow Up of Survivors of Postcardiotomy Circulatory Support. Ruzevich et al.; 4535, A.S.A.I.O. Transactions 34 (1988) April-June, No. 2, Hagerstown, MD, USA. PP 116-124
	165	Article: Hemodynamic Effects of the Concomitant Use of Intra-Aortic Balloon Pumping and Venoarterial Bypass without Oxygenation in Cardiogenic Shock. Takamoto et al. Intra-Aortic Pumping & Ventrarterial Bypass. Vol. 19. No. 3. May-June 1972. PP 244-248.
	166	Article: Mechanical Cardiopulmonary Support During Arteriography and Surgical Correction of Coronary Insufficiency Producing Myocardial Infarction with Cardiogenic Shock; Carlson et al. Journal of the Association for the Advancement of Medical Instrumentation. Vol. 6, No. 3. May-June 1972; PP 244-248.
	167	Article: The Sternotomy Hemopump, A Second Generation Intraarterial Assist Device. PP M218-220, 223.
	168	Article: Transarterial Closed-Chest Left Ventricular (TaCLV) Bypass. PP 386-390.
	169	Article: Implantable Left Ventricular Assist Device. PP 1522-1533.
	170	Article: Effects of Partial and Complete Unloading of The Failing Left Ventricle by Transarterial Left Heart Bypass. PP 865-872.
	171	Article: Hydrodynamic Properties of a New Percutaneous Intra-aortic Axial Flow Pump. Reitan et al. ASAIO Journal 2000. pp. 323-328.
	172	The Journal of Heart and Lung Transplantation: Mechanical and Biological Support, Article: Bridge to Transplantation with the CardioWest Total Artificial Heart: The International Experience 1993 to 1995, Vol. 15, No. 1, Part 1, PP 94-99.
	173	US Patent Application Publication No. 2002/0111577 Sirimanne, et al. published August 15, 2002.
	174	US Patent Application Publication No. 2002/0188166 Viole, et al. published December 12, 2002.
	175	US Patent Application Publication No. 2002/0188167 Viole, et al. published December 12, 2002.
	176	US Patent Application Publication No. 2003/0069468 Bolling, et al. published April 10, 2003.
	177	US Patent Application Publication No. 2003/0144628 Sirimanne published July 3, 2003.
↓	178	US Patent Application Publication No. 2003/0187367 Odland published October 2, 2003.

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EXAMINER	<i>Can D. Kharan</i>	DATE CONSIDERED	<i>4/13/06</i>
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